

Supplementary Materials

# Environmentally Benign pSOFC for Emissions-Free Energy: Assessment of Nickel Network Resistance in Anodic Ni/BCY15 Nanocatalyst

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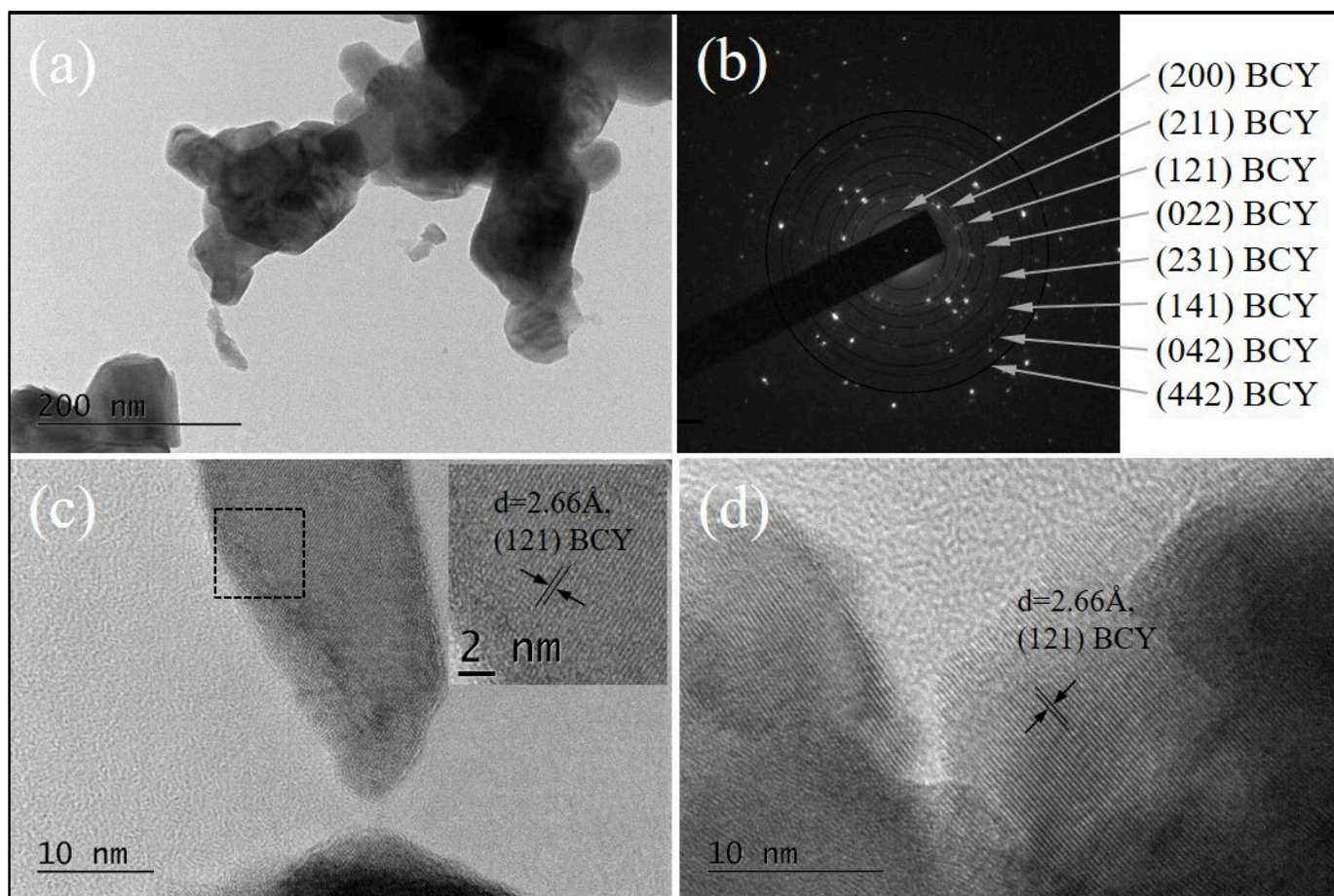


**Figure S1.** TEM image at magnification 40,000 $\times$  (a), SAED (b) and HRTEM image at magnification 400,000 $\times$  with zoomed square area as inset (c) and 600,000 $\times$  (d) for BCY sample.

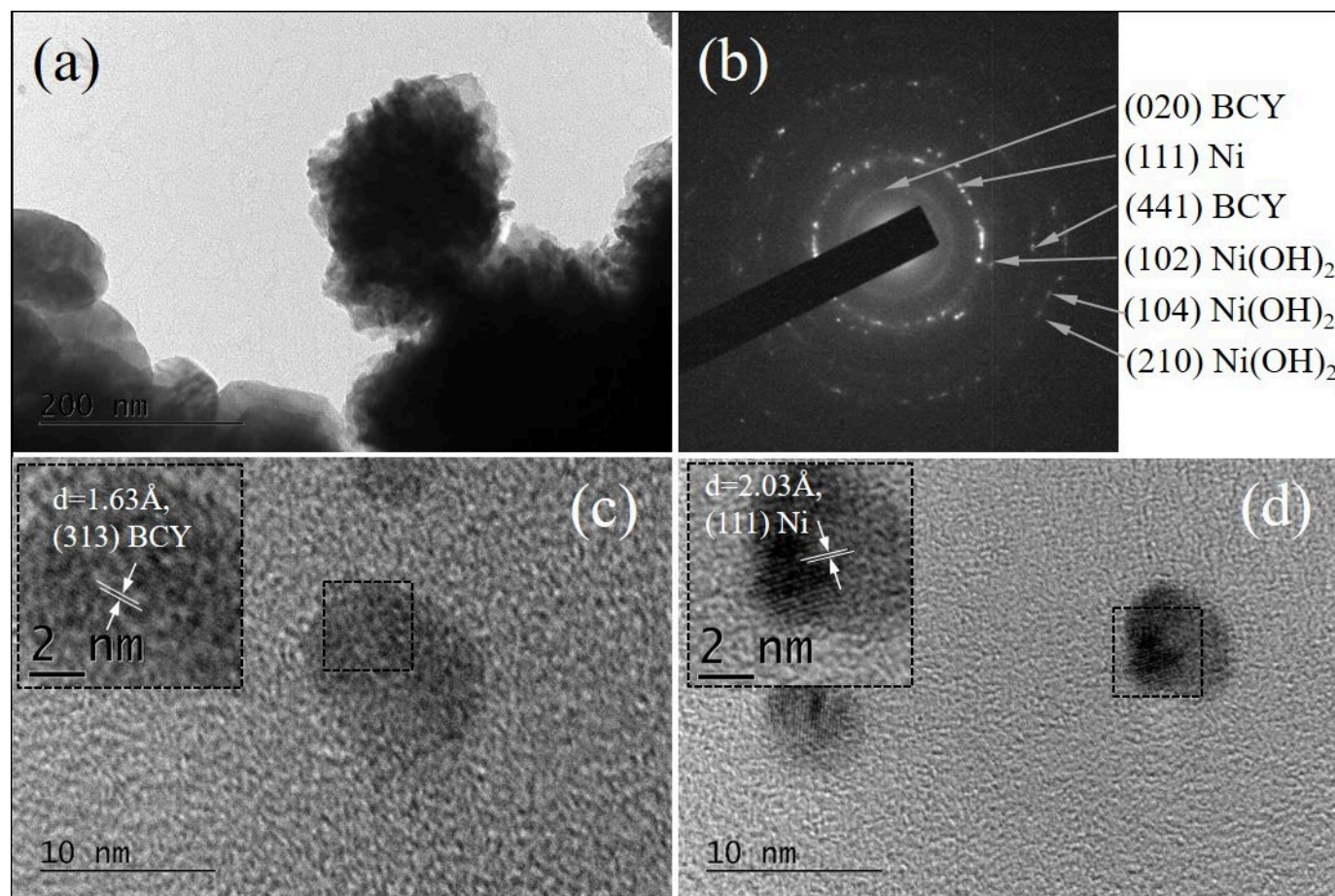


**Figure S2.** TEM image at magnification 40,000 $\times$  (a), SAED (b) and HRTEM images at magnification 600,000 $\times$  with zoomed square area as insets (c, d) for Ni/BCY-W sample.

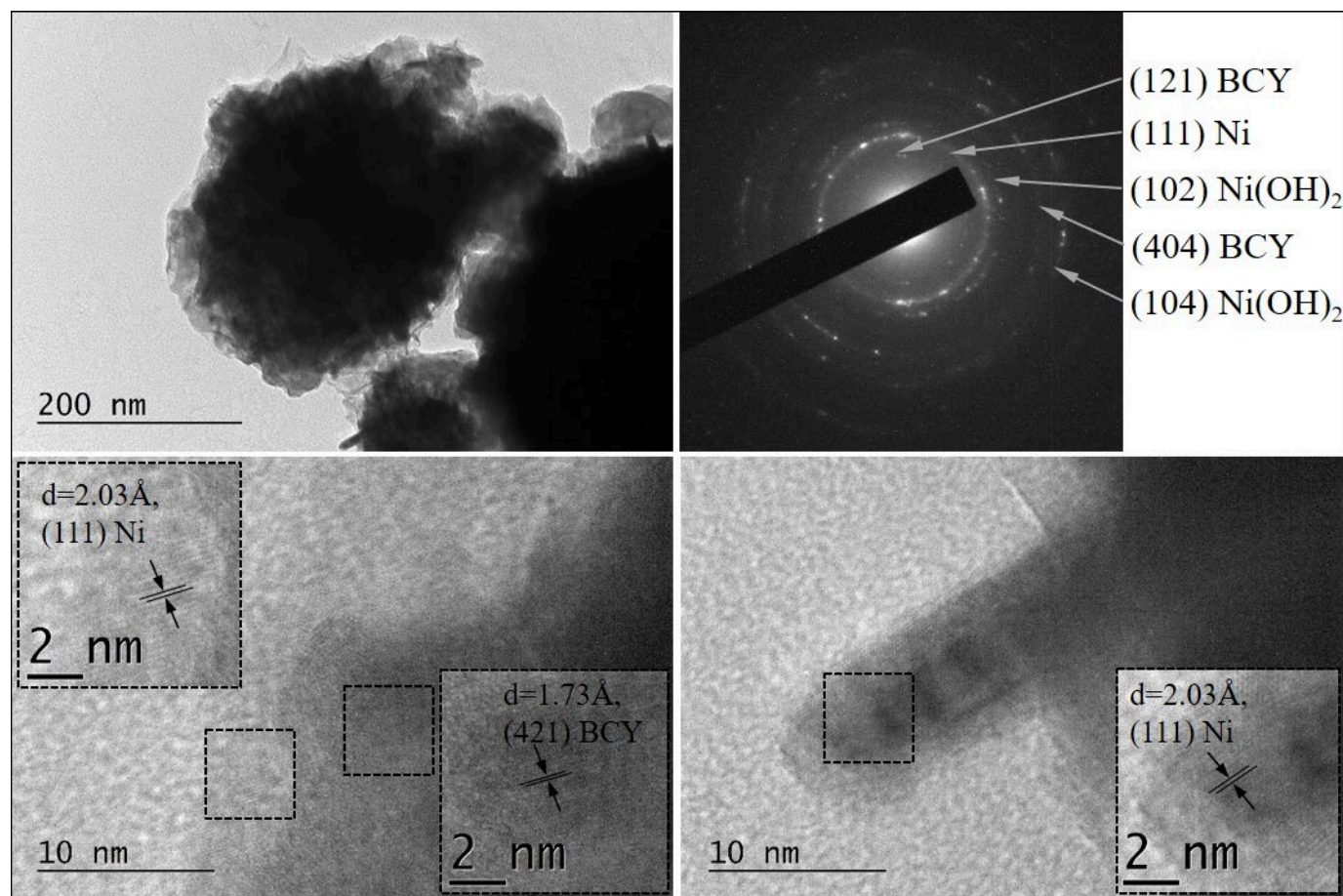


**Figure S3.** TEM image at magnification 40,000 $\times$  (a), SAED pattern (b) and HRTEM images at magnification 600,000 $\times$  with zoomed square area as insets (c, d) for Ni/BCY-EG sample.